

TENTATIVE PROGRAM

SYMPOSIUM ON

Phenotypic Variation in Populations: Relevance to Risk Assessment

**Brookhaven National Laboratory
Upton, NY**

December 7-10, 1986

Sunday, December 7, 1986

6:00 pm - Registration/Buffet

Opening Session

8:00 pm - 9:30 pm

8:00 Welcome and Introduction

***Avril D. Woodhead
Brookhaven National Laboratory**

Symposium Lecture - I

Relevance of Phenotypic Variation in Risk Assessment:

The Scientific Viewpoint

***Richard B. Setlow
Brookhaven National Laboratory**

9:30 Reception

Monday, December 8

Session II

Genetic Variability

8:30 am - 12:45 pm

**8:30 Chair: *Larisa Rudenko
Brookhaven National Laboratory**

**8:45 Human Genetic Individuality
Arno Motulsky
University of Washington**

**9:30 Fragile Sites, Mutagens and Genomic Rearrangements in Cancer
Jorge J. Yunis
University of Minnesota Hospitals**

10:15 Coffee

Asterisk indicates acceptance.

10:30 Gene-Environment Interaction as a Cause of Human Variation
H. Eldon Sutton
University of Texas, Austin

11:15 Cytochrome P450 Genes and Their Regulation
Daniel W. Nebert
National Institute of Health, Bethesda

12:00 Epidemiologic Evidence for Genetic Variability in the Frequency of Cancer
Robert W. Miller
National Institute of Health, Bethesda

12:45 Lunch

Session III
Genetic Variability II
1:45 pm - 5:15 pm

1:45 Chair: *Robin C. Leonard
Brookhaven National Laboratory

2:00 Sources and Significance of Variation as Measured in Human Populations
Edmund A. Murphy
The Johns Hopkins University, Baltimore

2:45 Variability in Anthropometric Measurements in Twins and Their Families
Linda Corey
Medical College of Virginia

3:30 Coffee

3:45 Variation in Expression of Congenital Heart Disease Within Families
Joann Boughman
University of Maryland

4:30 The Use of Polymorphic Markers to Detect Genetic Variability
Robert C. Elston
Louisiana State University Medical Center

6:30 Banquet

8:00

**Session IV
Symposium Lecture - II**

Chair: *Avril D. Woodhead
Brookhaven National Laboratory
8:00 pm - 9:30 pm

Relevance of Phenotypic Variation in Risk Assessment:
Ethical and Institutional Parameters

*Sheldon W. Samuels
Industrial Union, AFL-CIO, Washington, DC

9:30

Reception

Tuesday, December 9

**Session V
Environmental Sources of Variability**
8:00 am - 11:45 am

8:00

Chair: *Leonard D. Hamilton
Brookhaven National Laboratory

8:15

Undecided

9:00

*L. N. Kolonel
University of Hawaii

9:45

Coffee

10:00

Cancer Differences by Religion

J. L. Lyon
University of Utah

10:45

*Norman Arnheim
University of Southern California

11:45

Lunch

Session VI
Variability With Age
12:30 pm - 3:00 pm

12:30 Chair: *Betsy M. Sutherland
 Brookhaven National Laboratory

12:45 Variability in Lifespan Functional Capacity
 Richard Sprott
 National Institute on Aging, Baltimore

1:30 Constitutional Somatic Genetic and Environmental Aspects of the
 Phenotypic Diversity of Aging in Human Subjects
 George Martin
 University of Washington, Washington State

2:15 Variability in Cognitive Function in the Elderly: Implications for
 Societal Participation
 K. Warner Schaie
 Pennsylvania State University

3:00 pm
Tour of Brookhaven Research Facilities

6:30 Dinner

8:00 Symposium Lecture - III

Chair: *Eugene P. Cronkite
Brookhaven National Laboratory
8:00 pm - 9:30 pm

Relevance of Phenotypic Variation in Risk Assessment:
The Legal Viewpoint
*John G. Harkins, Jr.
Pepper, Hamilton and Scheetz, Philadelphia

9:30 Reception

Wednesday, December 10

Session VII
Variability in Risk Assessment Analysis (II)
8:30 am - 12:30 pm

8:30 Chair: *Sam C. Morris, III
 Brookhaven National Laboratory

8:45 Undecided

9:30 Interactions Between Radiation and Other Risk Factors in the
 Causation of Cancer
 Charles E. Land
 National Cancer Institute, Bethesda

10:15 Coffee

10:30 Donald Horning
 Harvard School of Public Health, Boston

11:15 Differential Susceptibility: Implications for Epidemiology, Risk Assessment, and Public Policy
 Stephen L. Brown
 National Research Council

12:00 Lunch

Session VIII
Cost Benefit Ethics
1:30 pm - 4:00 pm

Chair: *Michael A. Bender
Brookhaven National Laboratory

1:30 Variation in Individuals Response--Will It Really Affect the Regulatory Response?
 Roger Cortesi
 U. S. Environmental Protection Agency, Washington, DC

2:15 Responsibilities of Government in Risk Assessment
 Renate Kimbrough
 Center of Disease Control, Atlanta

3:00 Making Medical-Moral Judgements
 T. Murray
 Institute for the Medical Humanities, Galveston

4:00 Closing Remarks
 *Richard B. Setlow
 Brookhaven National Laboratory

4:15 Adjourn

Organizing Committee:

Michael A. Bender
Leonard D. Hamilton
Robin C. Leonard
Richard B. Setlow
Avril D. Woodhead, Chairperson